



Financial Aid Switch Oled Latest

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Financial Mail ,2005-08 Diode Laser Materials and Devices - A Worldwide Market and Technology Overview to 2005
R. Szweda,2001-12-20 This report examines the development of the diode laser industry over a six year period 2000 to 2005 incorporating analysis of trends in markets technologies and industry structure It is designed to provide key information to users and manufacturers of substrates epitaxial wafers epiwafers and devices The coverage includes components laser diodes and the semiconducting SC wafers and epiwafers on which most of these devices are made The geographical coverage of the report includes North America Japan and Europe which together will account for over 90% of the production and consumption of diode laser materials and devices over the next five years However many other countries have activities in this field including South East Asia Taiwan South Korea Singapore Malaysia etc China India Australia and Eastern Europe Russia Poland Hungary the Czech Republic amongst others Activities in these countries are commented on in the text where relevant but are not quantified in the market data Chapter 1 is an introduction to the market study Chapter 2 contains an executive summary Chapter 3 overviews materials markets The size quality and particularly the price of substrates and wafers are key factors in determining the ability of companies to produce competitive laser products Chapter 3 also examines trends in materials technologies for laser diodes the impact of the device markets on wafer demand and the main suppliers This chapter introduces the semiconductor materials that are presently or will likely become important to the fabrication of diode laser devices The principal distinguishing properties of these materials are explained with reference to their application Chapter 4 chapter examines the basic application sectors for laser diode devices as well as the basic commercial opportunities changes and forces acting within each sector The chapter also examines the market for the basic types of device as well as the promising newer types For each type of device market data and forecasts are provided and future prospects described The application data are presented for the following industrial groups Automotive Computers Consumer Industrial Military and Aerospace Telecommunications Others A full 5 year forecast and analysis is provided by application and region Chapter 5 is a technology overview In this chapter a background and overview of developments in the principal technological R D and production processes for devices is provided The main focus is on the most important enabling technology for the production of the present and future generations of laser diodes and related devices This process is crystal growth and involves the following sequence Bulk growth of single crystals Epitaxial growth of semiconductor single crystal layers Ion implantation Device fabrication ie gate and contact formation etc Packaging test Chapter 6 profiles substrate suppliers epiwafers suppliers and merchant and captive producers of GaAs devices Chapter 7 lists universities and selected industrial labs involved in the areas of diode laser research Chapter 8 is a directory of suppliers Chapter 9 provides acronyms and exchange rates The Electrical World ,1887 *Canadian Journal of Chemistry* ,2006 *Popular Mechanics* ,2005-05
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